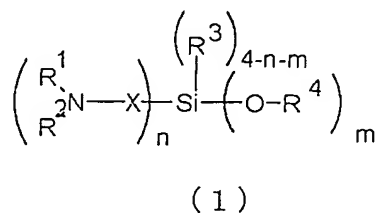


WHAT IS CLAIMED IS:

1. A coating liquid for forming insulating film comprising (A) and (B), wherein a water content in the coating liquid is not more than 1% by weight:

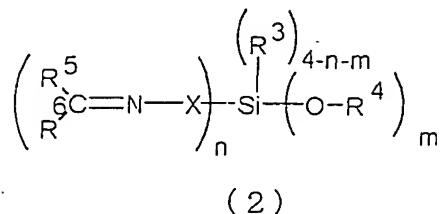
(A): a heat-reactive nonpolar compound or polymer thereof, wherein the heat-reactive nonpolar compound is selected from the group consisting of a compound having less than two carbon-carbon double bonds, a compound having not less than two carbon-carbon triple bonds, and a compound having at least one carbon-carbon double bond and at least one carbon-carbon triple bond,

(B): at least one compound selected from the group consisting of silane compounds represented by following formulae (1) to (3):

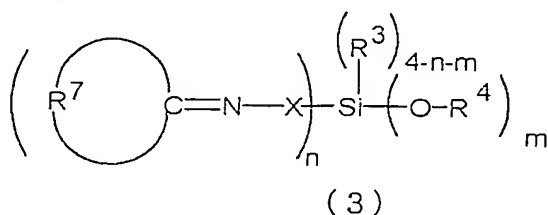


(wherein, R^1 and R^2 independently represent hydrogen atoms, alkyl group having 1 to 4 carbon atoms or aryl group having 6 to 20 carbon atoms, R^3 represents alkyl group having 1 to 4 carbon atoms or aryl group that may be substituted with alkyl group having 1 to 3 carbon atoms, R^4 represents alkyl group having 1 to 4 carbon atoms, acyl group having 1 to 4 carbon atoms or

aryl group having 6 to 20 carbon atoms, X represents bivalent group, n and m is integers of from 1 to 3, providing that n+m is not more than 4),

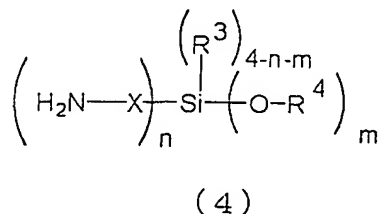


(wherein, R^3 , R^4 , n and m are as defined above, R^5 and R^6 independently represent hydrogen atom or monovalent organic group, providing that both R^5 and R^6 are not hydrogen atoms), and



(wherein, R^3 , R^4 , n and m are as defined above, R^7 represents alkylene group having 3 to 8 carbon atoms).

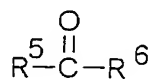
2. A coating liquid according to claim 1, wherein the compound of formula (1) is a compound of formula (4):



(R³, R⁴, n and m are as defined above).

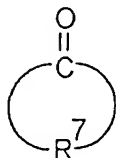
3. A coating liquid according to claim 1 or 2, wherein the compound of formula (4) is at least one selected from the group consisting of 2-aminoethyltrimethoxysilane, 2-aminoethyltriethoxysilane, 3-aminopropyltrimethoxysilane, 3-aminopropyltriethoxysilane, 2-aminoethyltriacetoxysilane, 3-aminopropyltriacetoxysilane.

4. A coating liquid according to claim 1, wherein a compound of formula (2) or formula (3) is obtained by condensation of the compound of formula (4) with a compound of formula (5) or formula (6):



(5)

(wherein, R⁵ and R⁶ are as defined above), and



(6)

(wherein, R⁷ is as defined above).

5. A coating liquid according to claim 4, wherein the

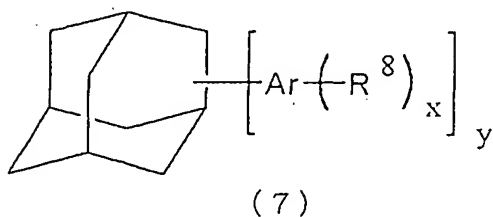
compound of formula (5) or formula (6) is a compound with boiling point not more than 250°C under atmospheric pressure.

6. A coating liquid according to claim 4, wherein the compound of formula (5) is at least one selected from the group consisting of methylethylketone, 2-butanone, 2-pentanone, 3-pentanone, methylbutylketone, methylisobutylketone, 2-heptanone, 3-heptanone, acetylacetone.

7. The coating liquid according to claim 1, wherein the amount of (B) is from 0.01 to 10% by weight to (A).

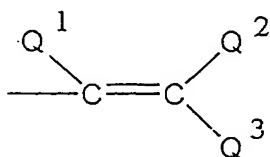
8. A coating liquid according to claim 1, wherein (A) is a heat-reactive nonpolar compound having adamantane skeleton or a polymer of the heat-reactive nonpolar compound having adamantane skeleton.

9. A coating liquid according to claim 8, wherein (A) is a compound of formula (7) or a polymer of the compound of formula (7):



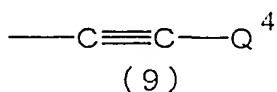
(wherein, Ar represents a group having an aromatic ring, R⁸

represents a group represented by formula (8) or formula (9),
 x represents an integer of from 1 to 3, wherein, when x is not
 less than 2, R⁸ may be same or different, y represents an integer
 of from 1 to 3, wherein, when y is not less than 2, Ar and R⁸
 may be same or different, x × y is an integer of from 2 to 9),



(8)

(wherein, each of Q¹ to Q³ independently represents hydrogen
 atom, alkyl group having 1 to 4 carbon atoms, alkenyl group having
 2 to 4 carbon atoms, alkynyl group having 2 to 4 carbon atoms,
 or phenyl group), and



(wherein, Q⁴ represents hydrogen atom, alkyl group having 1 to
 4 carbon atoms, alkenyl group having 2 to 4 carbon atoms, alkynyl
 group having 2 to 4 carbon atoms, or phenyl group).

10. A coating liquid according to claim 9, wherein the
 compound of formula (7) is a compound having Ar that bonds to
 methine group of adamantane skeleton.

11. A coating liquid according to claim 9 or 10, wherein

R⁸ is a group of formula (9).

12. A coating liquid according to claim 9, wherein R⁸ is ethynyl group or phenylethynyl group.

13. A method for forming an insulating film comprising coating a substrate with the coating liquid according to claim 1, baking at 80 to 250°C under atmospheric pressure in air, and heat-curing at 250 to 400°C.

14. An insulating film obtained by the method for forming according to claim 13.